

ABSTRACT

A sound-transmissive cover assembly is disclosed which provides protection from the ambient environment to transducer devices, such as microphones, loudspeakers, buzzers, ringers and the like. The cover assembly has a microporous protective membrane that is captivated at the outer region near the edges between two adhesive support systems. An inner unbonded region surrounded by the bonded outer region is provided so that the protective membrane can displace or move in response to acoustic pressure waves. The protective membrane design in conjunction with the configuration allows sound energy to pass through the protective membrane with very low attenuation, while being able to withstand long-term exposure to liquid intrusion. An embodiment of the cover assembly includes an attached acoustic gasket so as to seal and focus acoustic energy to housing apertures or openings.

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